

SELECTIVE COLLECTION SYSTEM FOR GRAPHIC PAPER



Background (REF: 1, 2)

A separate collection of paper and board is an essential feature of a waste and resource management system. If paper and board are collected together, they are mostly subsequently sorted into graphic paper and into packaging paper and board in order to make optimum use of the resource. A proper selective collection concept can make this additional sorting obsolete.



Figure 1- Graphic paper

The collected stream 'graphic paper' should correspond to paper for recycling grade 1.11.00. (according to the EN 643).

Graphic paper has an important role in the range of paper grades produced and in the worldwide need for paper. Typically, mass products such as newsprint are produced with a large portion of recycled paper.

The separation in the collection phase of graphic paper from the rest of paper and board raises its value on the market as long as a local market for graphic paper exists.

ACTION

Introduce selective collection for graphic paper. This allows the separation at the source of two different paper fractions thus decreasing (or even potentially eliminating) the need for subsequent technical sorting: (1) graphic paper and (2) non-graphic paper (mainly packaging paper and board)

Examples of good practice implemented

Selective collection of Graphic Paper in Sweden (REF: 3)

In Sweden a statutory producer responsibility for eight product groups: packaging, tires, magazines and newspapers (graphic papers), cars, electrical and electronic products (including incandescent bulbs and certain light fittings), batteries, pharmaceuticals, radioactive products and unclaimed radioactive sources.

Today, the producers' collection system for packaging waste and magazines and newspapers (graphic papers) consists of a nationwide scheme with recycling stations. Producers also subsidise the establishment of collection systems in residential areas where packaging waste and magazines and newspapers (graphic papers) are sorted and collected. Such collection systems are provided either by the municipality or by waste management company. The contractor that is hired by the municipality or the waste management company delivers the collected waste to a collection point nominated by one of the producers.

The collection and processing of magazines and newspapers (graphic papers) is financed by the forestry industry.

Recycling yard in Kempten (Germany) (REF: 4)

In this recycling yard, they collect different three different types of paper (news and magazines, packaging paper and board and mixed paper) according to their recycling grade:

1.11.00 News and magazines, 1.02 Assorted mixed waste paper, 1.04.00 packaging paper and board and 1.02.00 mixed paper.

More information:
Andreas Faul
(PROPAKMA) →
andreas.faul@propakma.com

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Keep in mind that...

- ⚠ This Good Practice should be applied additionally to the separate collection of paper and board.
- ⚠ Any change in the collection system requires an appropriate information campaign for citizens.

Related BP:
"Separate collection system for paper and board"

How to start? (REF: 5)

- Analyse the potential results with a cost-benefit analysis.
- Define properly the specific characteristics of the stream that you are going to collect, taking into account the recycling process.
- Make an estimation of the quantities of waste and resources to be collected in order to properly set up the system.
- Select the best suited performing collection system.
- Conduct an information campaign addressed to citizens, providing them accurate and easy-to-understand information.
- Monitoring performance of selective graphic paper collection system, based on a cost-benefit analysis.

Related BP:
"Specific collection system adapted to the real needs"



Standards listed in BP "Specific collection system adapted to the real needs" might be relevant.

EN 643 EN 12574
EN 840 EN 13071
EN 1501 EN 15132

GUIDELINE



EN 643 Standard- European list of Standard grades of recovered paper and board

European List of Standard Grades of Paper and Board for Recycling EN 643 by CEPI: This guidance document has been created to give advice to sellers and buyers of paper for recycling on the changes to EN 643 from its 2002 version to the revised 2013 version. It gives information about the type of (graphic) paper fractions with highest market value. This document should assist the market and facilitate penetration of the revised EN 643.



Paper for Recycling Quality Control Guidelines

Potential benefits



Better quality of collected material, reducing therefore sorting costs	●	●	●
Higher recycling rate owing to a higher quality material	●	●	
Higher price of material sold	●		



References:

1. CEPI (2013): European List of Standard Grades of Paper and Board for Recycling EN 643
2. VOITH: Graphic papers All information has its value – and its paper
3. FROM WASTE MANAGEMENT TO RECOURSE EFFICIENCY (2012): Sweden's Waste Plan 2012-2017
4. KOMMUNAL SERVICE JENA (2016): Separated waste collection system in Jena/Germany
5. DORR RECYCLING YARD IN KEMPTEN (Germany) (2016)
6. CEN (2003): EN 643 Standard